PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILIT

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference S6497 JV/PL	FOR FURTHER A	CTION See Form PCT/IPEA/416						
International application No. International filing date PCT/IB2005/000170 19.01.2005		(day/month/year)	Priority date (day/month/year) 02.02.2004					
International Patent Classification (IPC) o	r national classification and II	PC						
INV. C23C16/34	INV. C23C16/34							
Applicant L'AIR LIQUIDE, SOCIETE ANONYME A DIRECTOIRE ET								
This report is the international Authority under Article 35 and	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a tot	al of 5 sheets, including th	nis cover sheet.						
3. This report is also accompanie	d by ANNEXES, comprisi	ng:						
a. 🗆 sent to the applicant an								
and/or sheets conta	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
☐ sheets which super	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the							
, ,	al Bureau only) a total of (ii	ndicate type and numbe	r of electronic carrier(s)) containing a					
sequence listing and/or	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in celectronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
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4. This report contains indications	s relating to the following it	tems:						
☐ Box No. I Basis of the	report							
☐ Box No. II Priority								
☐ Box No. III Non-establis	hment of opinion with rega	rd to novelty, inventive step and industrial applicability						
☐ Box No. IV Lack of unity	of invention							
☐ Box No. V Reasoned stapplicability;	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
☐ Box No. VI Certain docu	ments cited							
☐ Box No. VII Certain defe	cts in the international app	lication						
☐ Box No. VIII Certain observations on the international application								
Date of submission of the demand		Date of completion of this	s report					
		·	·					
31.08.2005		13.04.2006						
Name and mailing address of the interna	tional	Authorized officer	was Palentem					
preliminary examining authority: European Patent Office - I	P R 5818 Patentlaan 2		Parising 19.					
NL-2280 HV Rijswijk - Pay	rs Bas	Ekhult, H	safety					
Tel. +31 70 340 - 2040 Tx Fax: +31 70 340 - 3016	: 31 651 epo ni	Telephone No. +31 70 3	40-					
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2005/000170

_	Box No. I	Basis of the report				
1.	With regard	gard to the language , this report is based on the international application in the language in which it was iless otherwise indicated under this item.				
	☐ This reward	eport is based on translations from the original language into the following language , is the language of a translation furnished for the purposes of:				
	□ pub	ernational search (under Rules 12.3 and 23.1(b)) blication of the international application (under Rule 12.4) ernational preliminary examination (under Rules 55.2 and/or 55.3)				
2.	have been	d to the elements * of the international application, this report is based on (replacement sheets which furnished to the receiving Office in response to an invitation under Article 14 are referred to in this originally filed" and are not annexed to this report):				
	Description	n, Pages				
	1-9	as originally filed				
	Claims, Nu	mbers				
	1-10	as originally filed				
	Drawings,	Sheets				
	1/1	as originally filed				
	□ a sequ	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing				
3.	☐ the ☐ the ☐ the ☐ the	mendments have resulted in the cancellation of: e description, pages e claims, Nos. e drawings, sheets/figs e sequence listing (specify): y table(s) related to sequence listing (specify):				
4.	had not be Supplement the the the	eport has been established as if (some of) the amendments annexed to this report and listed below the made, since they have been considered to go beyond the disclosure as filed, as indicated in the intal Box (Rule 70.2(c)). It description, pages to claims, Nos. It drawings, sheets/figs to sequence listing (specify): It is a sequence listing (specify): It is a sequence listing (specify): It is a sequence listing (specify):				
	* 75 11	com 4 applies some or all of these sheets may be marked "superseded "				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2005/000170

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-10

Inventive step (IS)

Yes: Claims

No: Claims

1-10

Industrial applicability (IA)

Yes: Claims

1-10

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VI Certain documents cited

1. Certain published documents (Rule 70.10)

and /or

2. Non-written disclosures (Rule 70.9)

see separate sheet

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/IB2005/000170

Re Item V.

1 Reference is made to the following document:

D1: WO 03/046254 A (L'AIR LIQUIDE, SOCIETE ANONYME A DIRECTOIRE ET CONSEIL DE SURVEILLANCE) 5 June 2003 (2003-06-05)

2 INDEPENDENT CLAIM 1

2.1

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

Document D1 discloses (page 8 line 1 - page 10 line 9, claims 1-3) a method for producing a silicon nitride film by chemical vapour deposition comprising feeding gaseous tris(isopropylamino)silane and gaseous hydrazine or alkylhydrazine into a chemical vapour deposition reaction chamber that holds a substrate, and forming a silicon nitride film on the substrate by reacting the two gases in the reaction chamber. Since claim 1 is not new, it also lacks an inventive step.

3 INDEPENDENT CLAIM 5

3.1

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 5 is not new in the sense of Article 33(2) PCT. Document D1 discloses (page 11 line 8 - page 12 line 4, claims 4-8) a method for producing silicon oxynitride film by chemical vapour deposition comprising feeding gaseous tris(isopropylamino)silane, gaseous hydrazine or alkylhydrazine and oxygenated gas into a chemical vapour deposition reaction chamber that holds a substrate, and forming silicon oxynitride film on the substrate by reacting these gases in the reaction chamber. Since claim 5 is not new, it also lacks an inventive step.

4 DEPENDENT CLAIMS 2-4, 6-10

Dependent claims 2-4, 6-10 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of

novelty and/or inventive step (Article 33(2) and (3) PCT).

Re Item VI Certain documents cited

Certain published documents

Application No Patent No	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
WO2004/017383	26-02-2004	18-08-2003	18-08-2002
US2004/0132257	08-07-2004	30-10-2003	31-10-2002
WO2004/059707	15-07-2004	18-12-2003	20-12-2002
US2005/0025885	03-02-2005	30-07-2003	30-07-2003